

p7.5tk

7.5 k promoter

Not I

Apa I

GGCCAAATTGAACTAGATCTATTATTGCACCGGCGCGCCCATG GGC CCG GCC GCC AAC GGC GGA

Met Gly Pro Ala Ala Asn Gly Gly

tk coding sequence



pE/Ltk

synthetic E/L promoter

Not I

Apa I

GGCCAAATTGAAATTTTATTTTTTTTGGGAATATAAAGCGCGCGCCCATG GGC CCG GCC GCC AAC GGC GGA

Met Gly Pro Ala Ala Asn Gly Gly

tk coding sequence



1. p7.5tk

7.5K PROMOTER NOTI APAI
 5'- GGCCAAAAATTGAAAAACTAGATCTATTATTGACACGGCGCCGCATGGGCCCCGGCC -3'

2. p7.5/ATG0/tk

7.5K PROMOTER NOTI BAMHI SMAI PSTI
 5'- GGCCAAAAATTGAAAAACTAGATCTATTATTGACACGGCGCCGCGTGGATCCCCCGGGCTGCAGGAA

TRANSLATION		TRANSCRIPTION	
SALI	STOP CODONS	STOP CODONS	STOP SIGNAL
TTCGATATCAAGCATTATCGATACCGTCGACCTCGAGGGGGGGCCTAACTAAATTTGTTTGT			

APAI

GGGCCCCGGCC -3'

FIG. 2

3. p7.5/ATG1/tk

	7.5K PROMOTER	NOTI	START	CODON BAMHI	SMAI	PSTI
5'-	GGCCAAAATTGAAAACTAGATCTATTTATTGCACGGCGGCCGCCATG			GTGGATCCCCCGGGGCTGCAGGAA		

	SALI	TRANSLATION	TRANSCRIPTION
		STOP CODONS	STOP SIGNAL
TTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGCCCTAACTAAATTTGTTTGT			

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APAI

GGGCCCCGGCC -3'

FIG. 2 (cont.)

4. p7.5/ATG2/tk

		START	
7.5K PROMOTER	NOTI	CODON	BAMHI SMAI PSTI
5'-GGCCAAAATTGAAAACCTAGATCTATTATTGCACGGCGCCGCCATGAGTGGATCCCCCGGGCTGCAGGAA			

TRANSLATION TRANSCRIPTION

SALI STOP CODONS STOP SIGNAL

TTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCTAACTAAATTTGTTTGT

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APAI

GGGCCCGGCC-3'

FIG. 2 (cont.)

5. p7.5/ATG3/tk	START			
	7.5K PROMOTER	NOTI	CODON	BAMHI SMAI PSTI
5'- GGCCAAAATTGAAAAACTAGATCTATTATTGCACGGGGCGGCCA TGACGTGGATCCCCGGGCTGCAGGAA				
	SALI	TRANSLATION	STOP CODONS	TRANSCRIPTION
				STOP SIGNAL
TTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGCCCTAACTAAATTTGTTTGT				
APAI				5/18
GGGCCCCGGCC -3'				

FIG. 2 (cont.)

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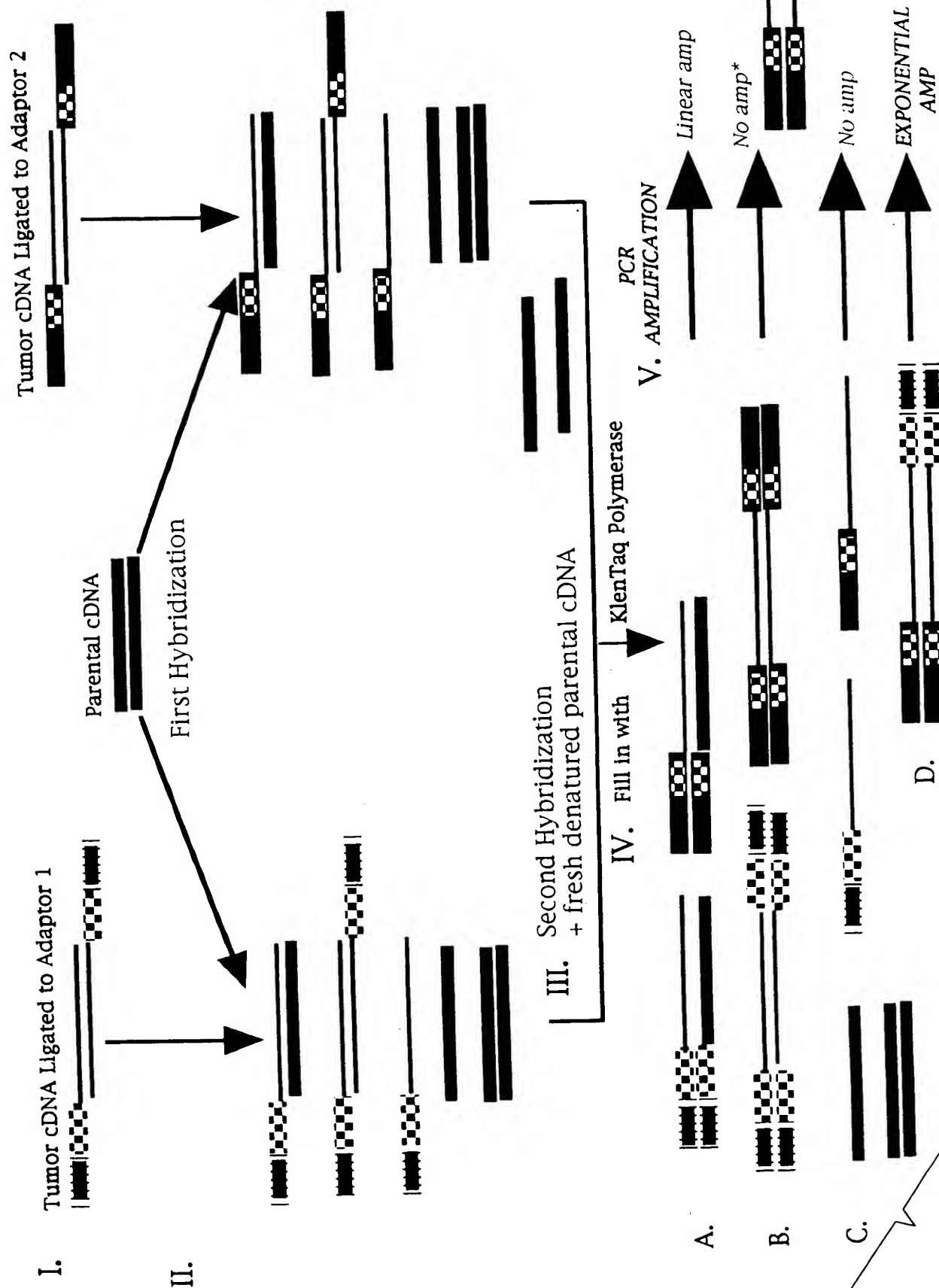


FIG. 3

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SUBTRACTED
100 bp LADDER

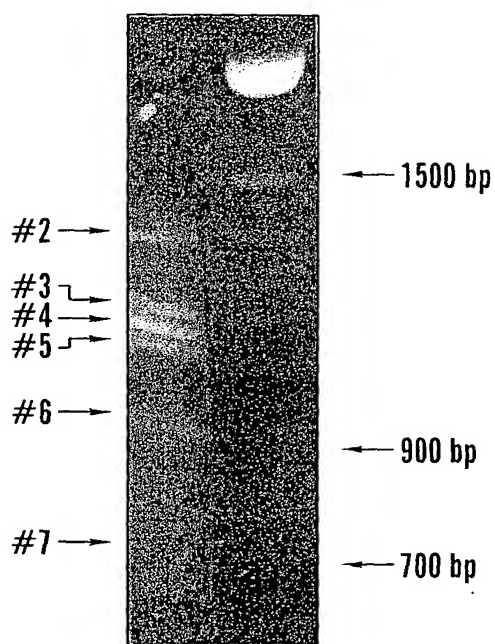
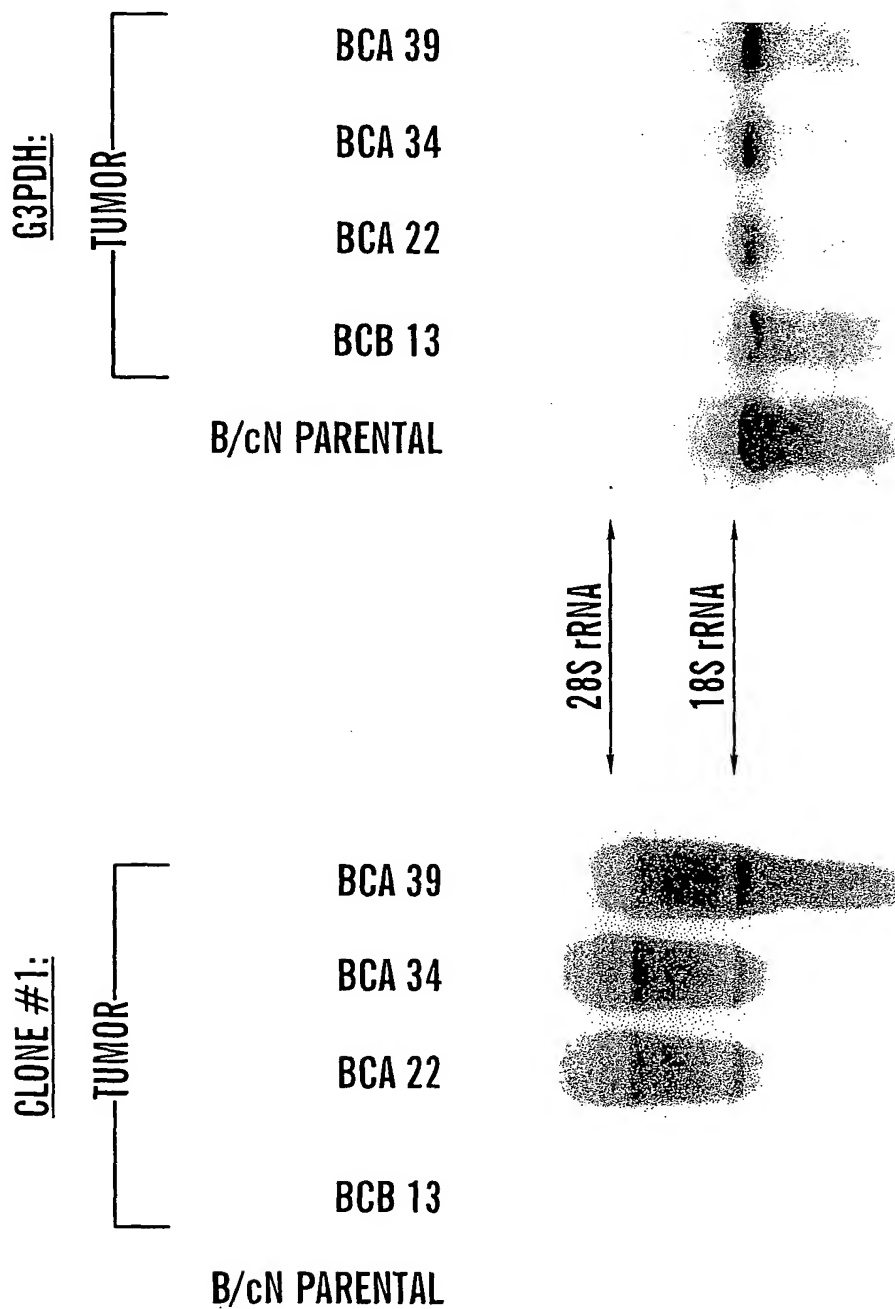


FIG. 4

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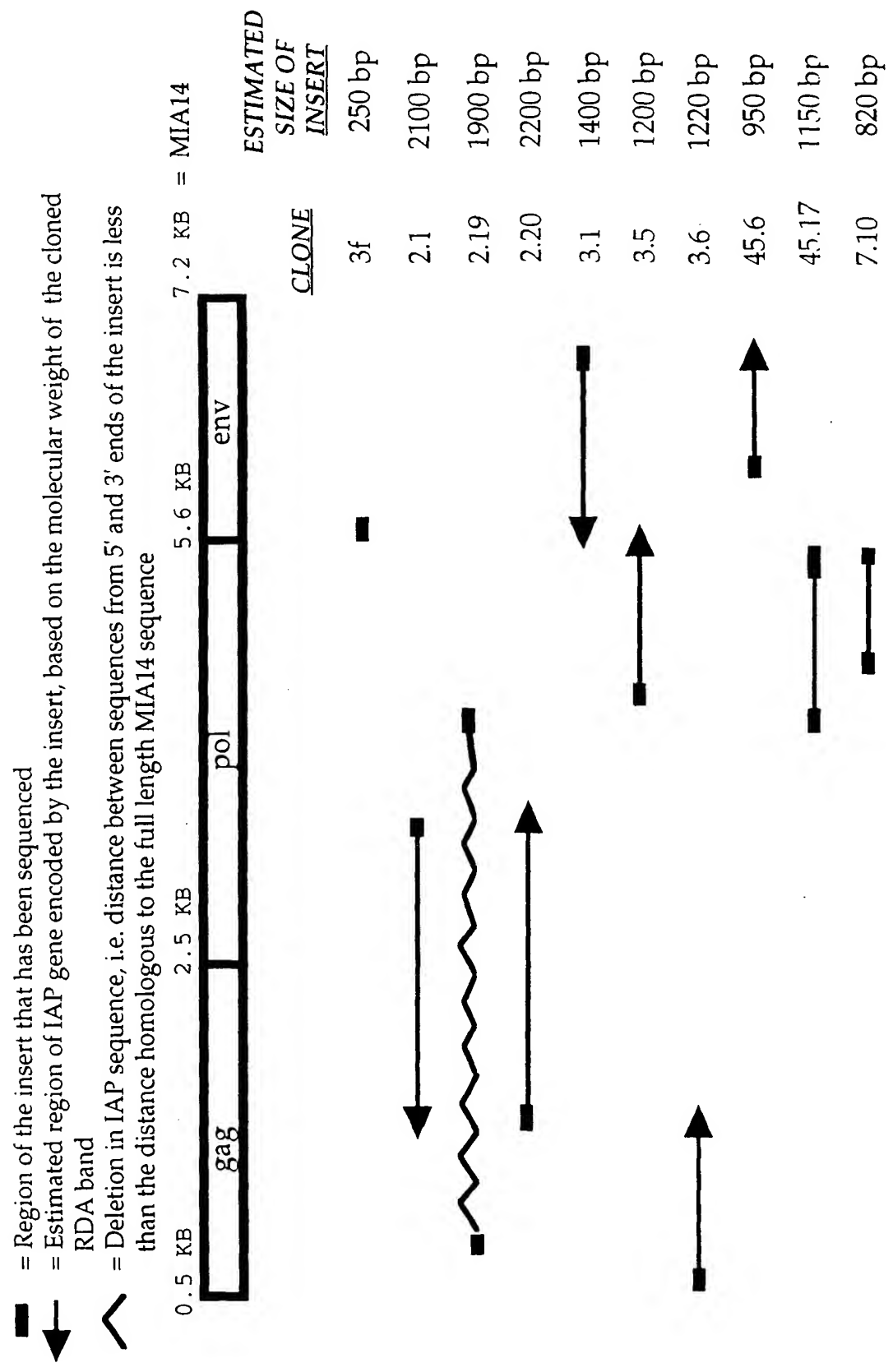


FIG. 6

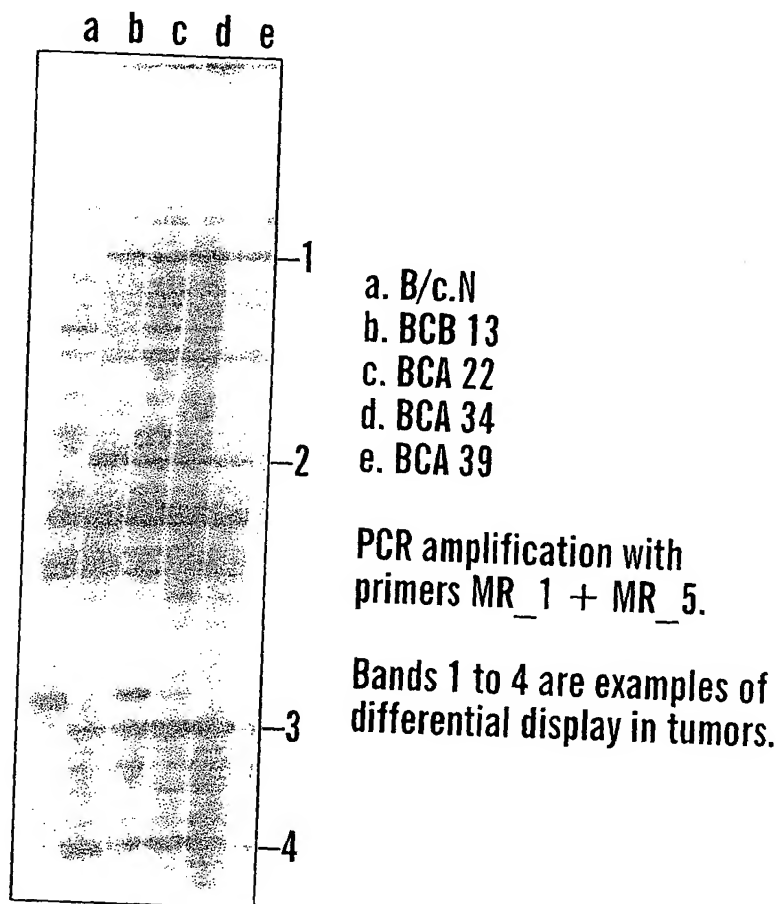


FIG. 7

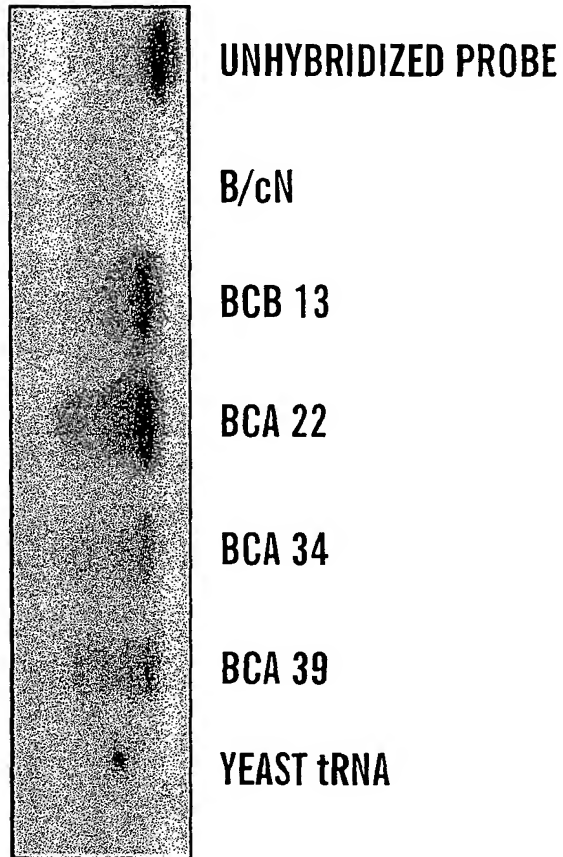


FIG. 8A

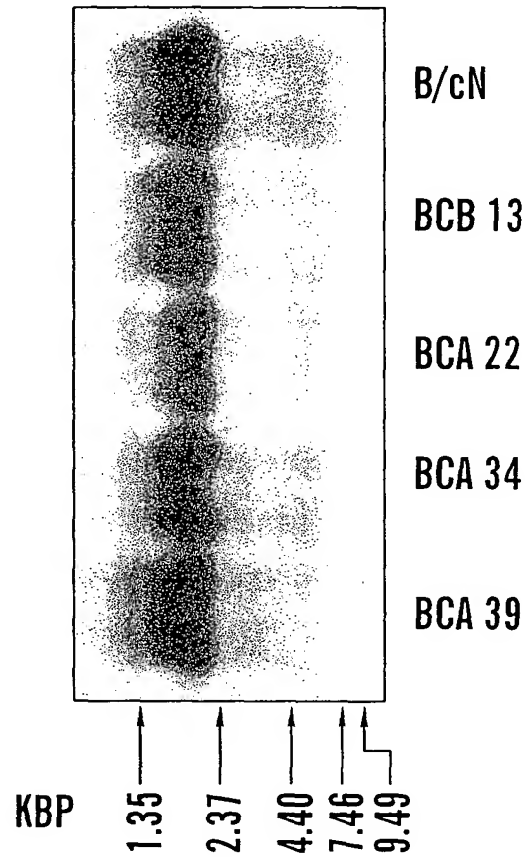


FIG. 8B

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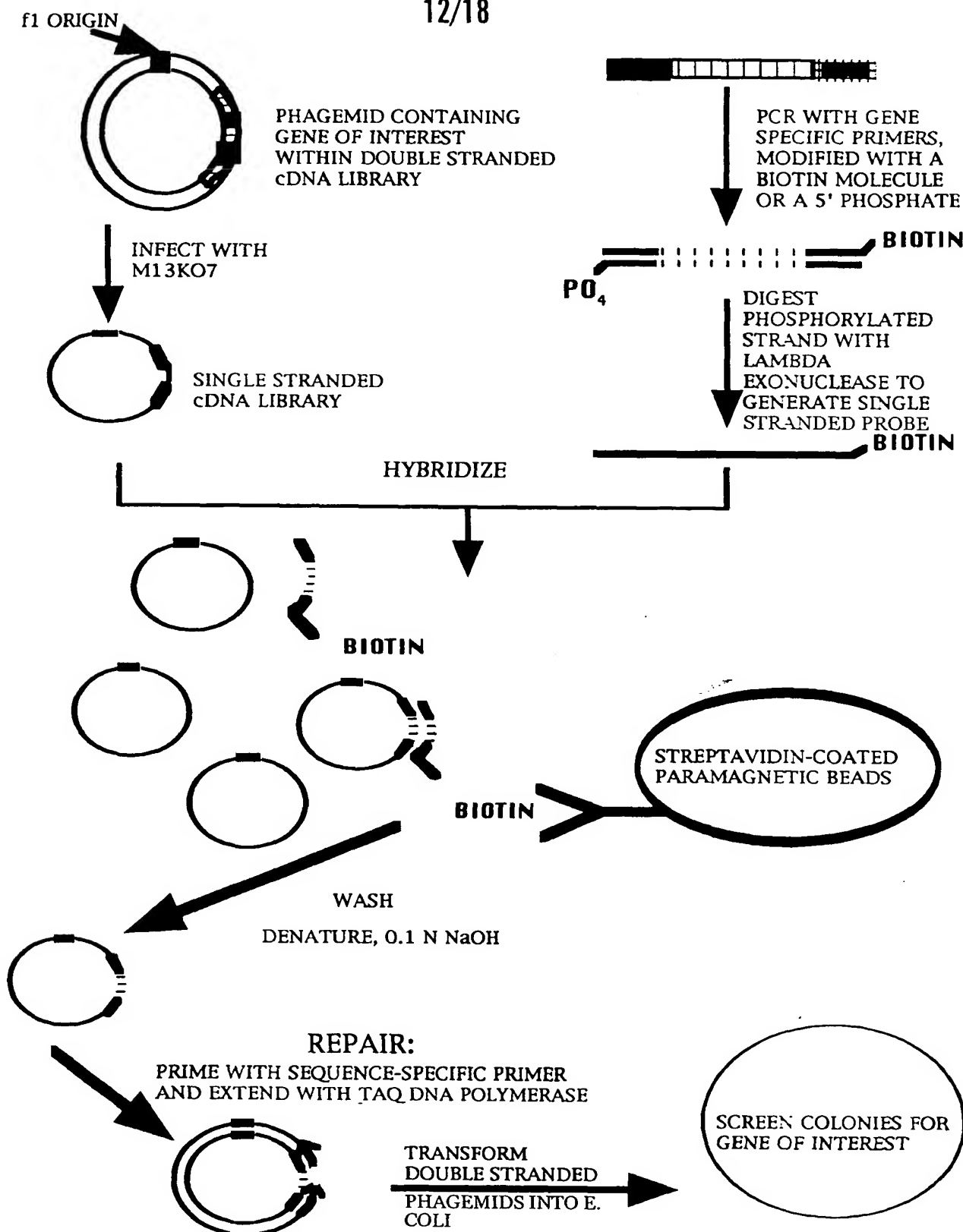
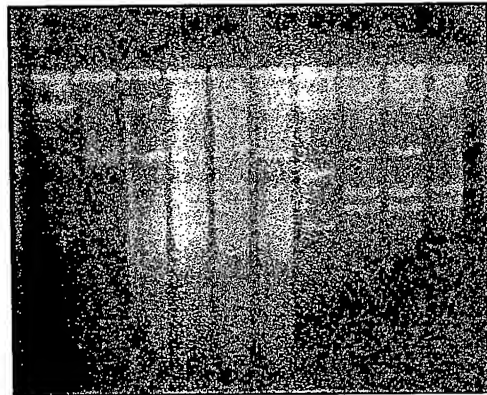


FIG. 9

Apal

NotI

λ WR WR vEL v7.5 vNot/tk WR vEL v7.5 vNot/tk



WR

NotI

vNotI/tk

NotI

vEL/tk
v7.5/tk

NotI Apal

FIG. 10

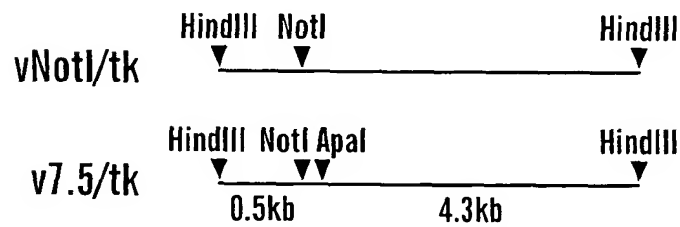
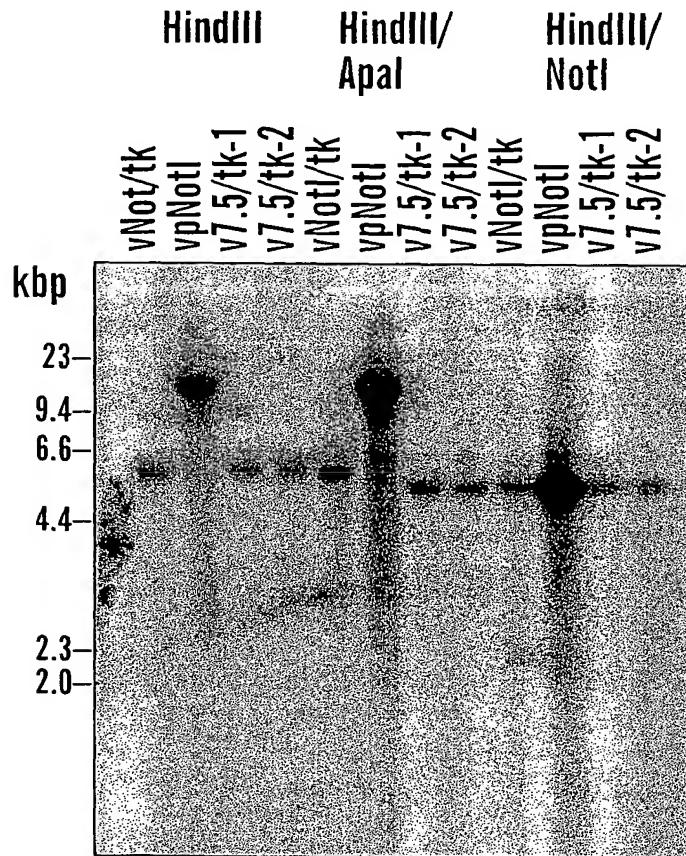


FIG. 11A

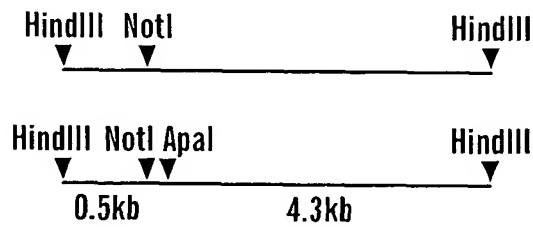
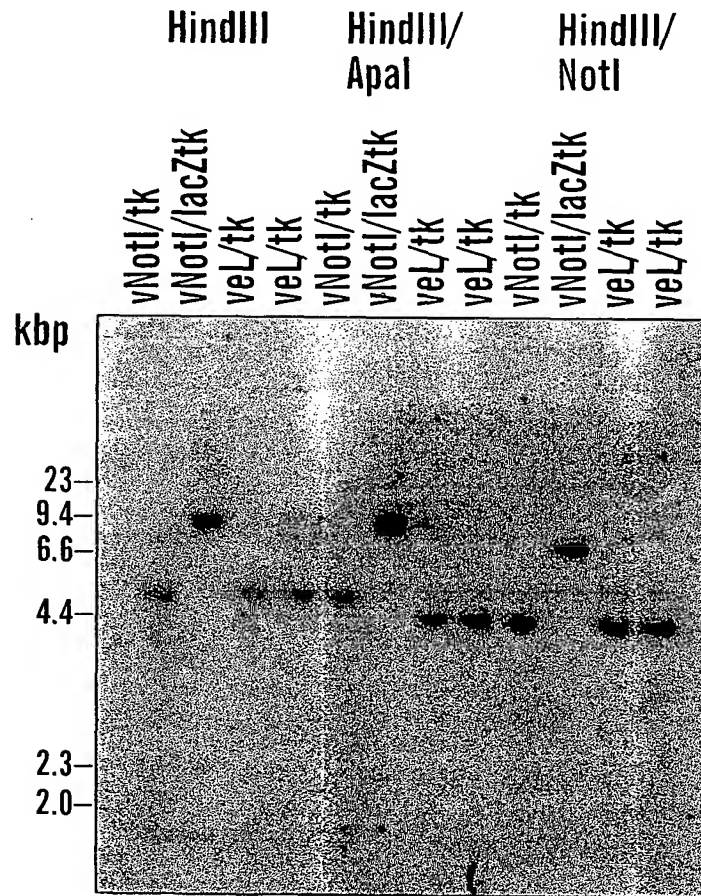
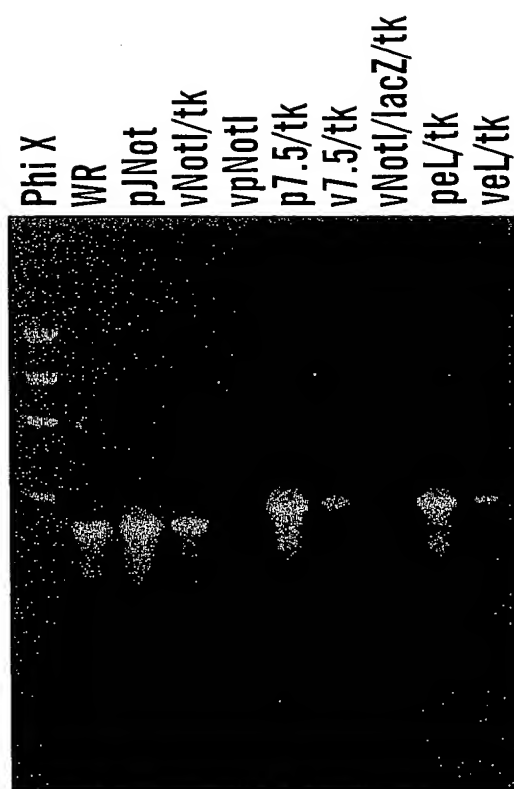
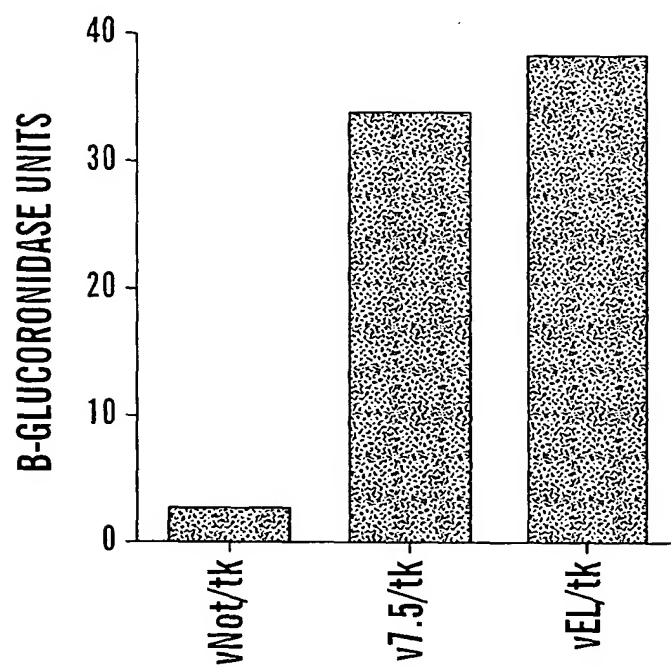


FIG. 11B

**FIG. 12**

**FIG. 13**

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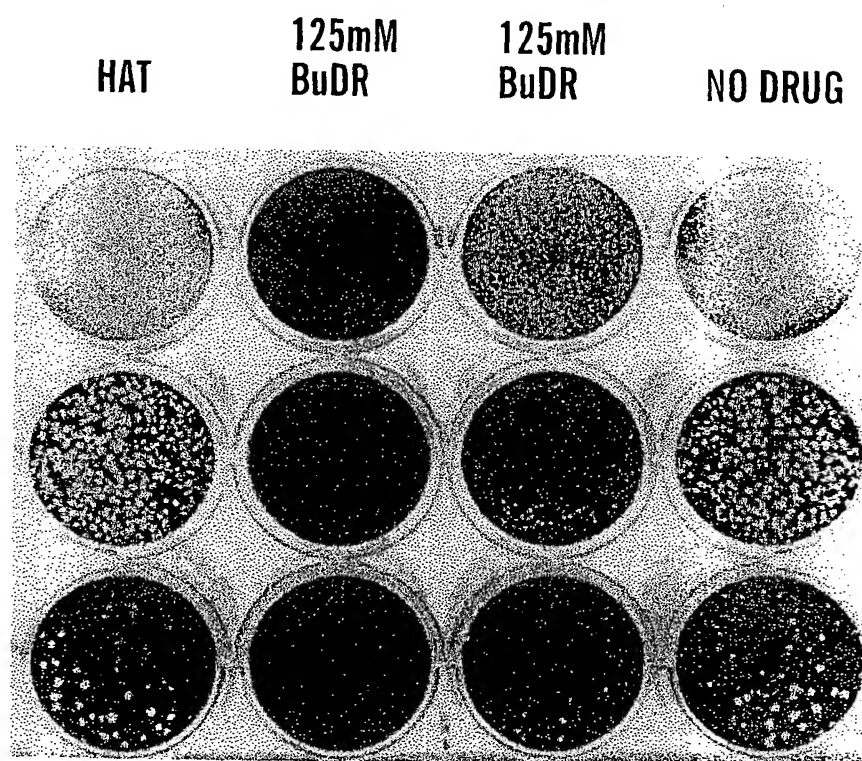


FIG. 14